



# PDS User-Centered Design (UCD) Tools Update

PDS Management Council Meeting - April 10-11, 2014

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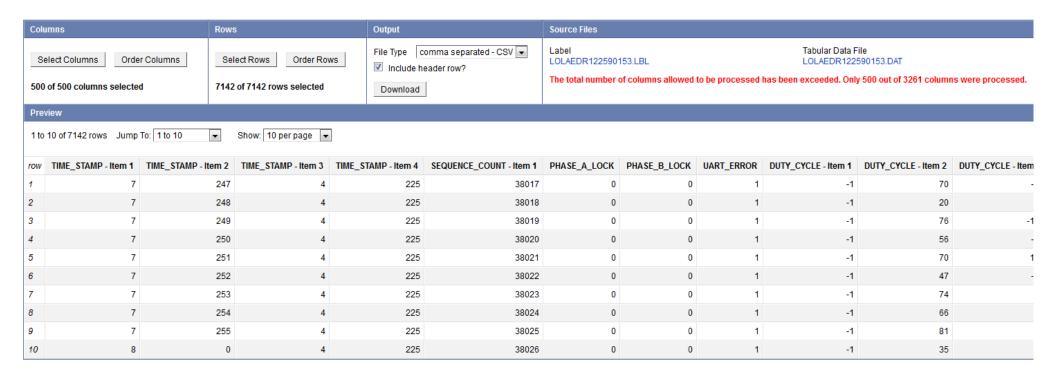
NASA Ames Research Center

### Overview

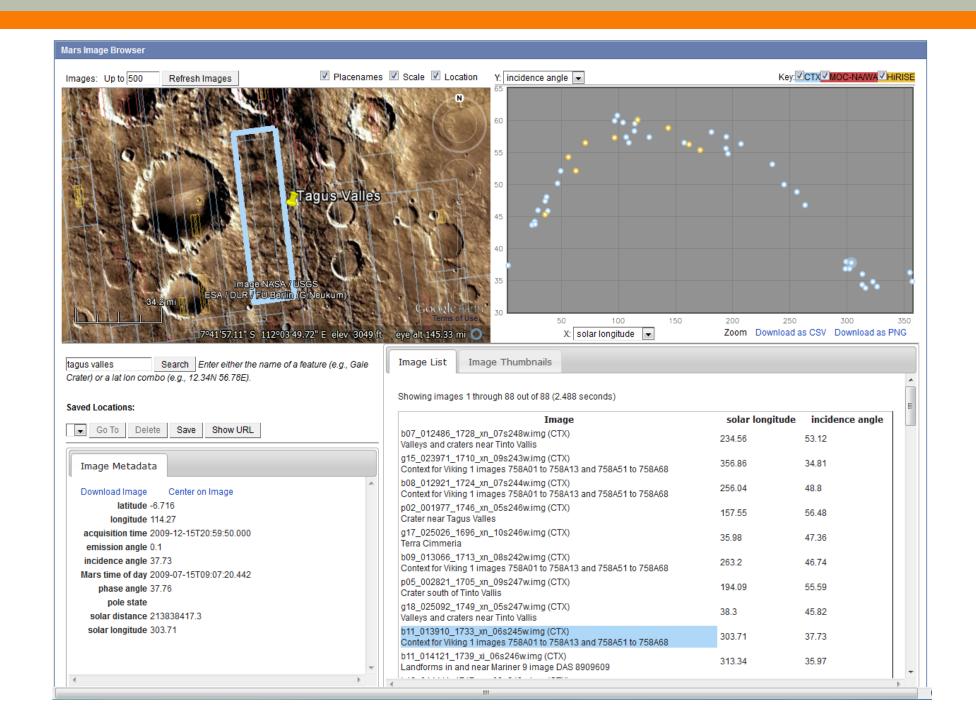
#### Updated Tools:

- PDS Table Explorer
- Mars Image Explorer
- LACE

## PDS Table Explorer



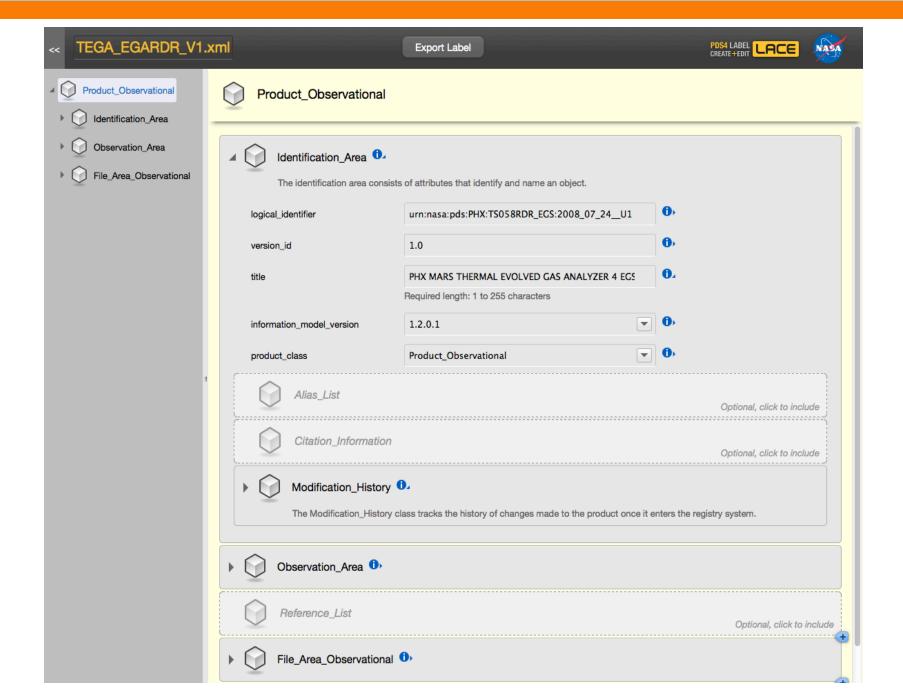
# Mars Image Explorer



#### LACE Progress

- LACE: PDS4 LAbel Creation and Editing Tool
- Much progress since initial demonstration to MC one year ago
- Conducted 13 1-hour testing sessions with users to assess interface usability and functionality, and to gather new requirements
- Usage by LADEE UVS instrument team preparing labels and local data dictionaries for delivery to Atmospheres

#### LACE Demo



#### LACE Feature Summary

- Form-based label entry: vs. XML Editor
- Schema compliance support: Alerts user about required elements/fields and schema/schematron constraints
- Auto-validated label: LACE only generates valid PDS4 XML
- Support for Local Data Dictionaries
- Persistent storage of labels in Label Manager
- Save-as-you-type field entry
- Instantaneous error feedback
- Field and element documentation display
- Rapid navigation within labels using Tree View
- Totally web browser-based: No software to install

#### Planned Features / Release Timeline

- Template support\*
- Cut/paste\*
- XML preview\*
- Table entry support, including auto-calculating offsets
- Coordinated editing of label and associated local data dictionary
- Collaborative sharing of labels/templates
  - LACE Beta version available for use by end of May
  - LACE Version 1.0 release available by next F2F in August 2014